

Test Model: CPE150-P24

# User Manual



This is the user manual of Outdoor WiFi Bridge with Qualcomm Chipset, which will approximate guide you how to set and apply this product. It provide a convenient graphical interface for network construction and maintenance person, as well as a user through a simple and accurate operation, and configuration management of the ceiling wireless access point.

**Attention:**

**1. Check box contents:**

Outdoor CPE

PoE Power adapter (for 24V Passive PoE device)

LAN cable

User Manual

Installation Accessory

**2. Warning:**

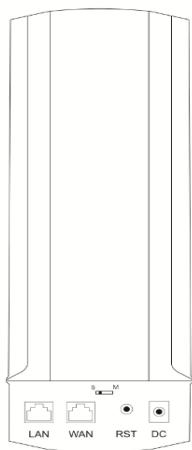
- Do not use the same power source for the product as other equipment. Only use the power adapter that comes with the package. Using a different voltage rating power adapter may damage the device.
- Do not open or repair the case yourself. If the product is too hot, turn off the power immediately and have it repaired at a qualified service center.

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# Chapter 1: Hardware and Operation mode Instruction

## 1.1 Interface Instruction:



P1 Product Interface

**LAN:** 1\*10/100Mbps RJ45 port, can support 24V Passive PoE.

**WAN:** 1\*10/100Mbps RJ45 port, can support 24V Passive PoE, but it change to LAN port under WDS, WiFi Repeater operation mode

**RST:** Reset Button, press 10~15 seconds, outdoor CPE will revert to default settings.

**DC:** 12V/1A DC input injector.

**WDS Switch Button:** **S:** mean slaver AP; **M:** mean master AP.

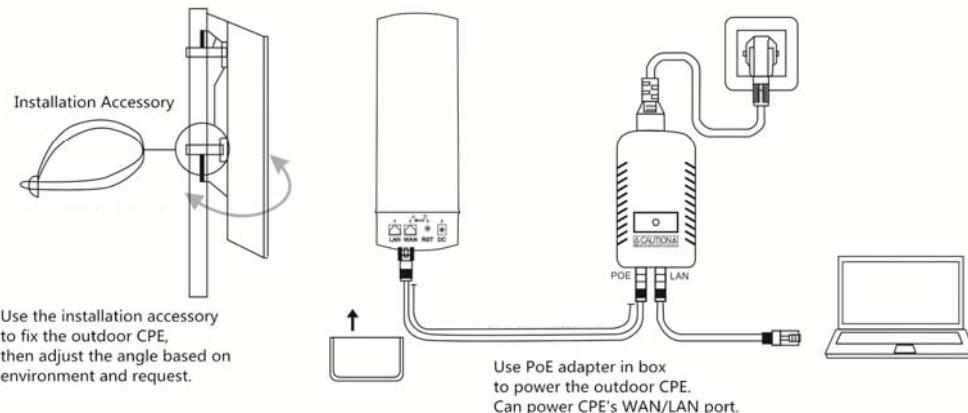
## 1.2: LED light instruction:



LED Light	Name	Status	Instruction
SYS	System Light	Blue color, Slow Blinking	Master AP
		Blue color, Light	Slave AP
		Blue color, Fast Blinking	Reset to Default
WAN	WAN Port	Green Color, Light	Connected
LAN	LAN Port	Green Color, Light	Connected
	WiFi Status LED Light	Green Color, Blinking	WiFi transmission OK
	Signal Strength	Green Color, Blinking in proper order	Working as normal

### 1.3 PoE Power Connection and Installation

There is a PoE adapter and Installation Accessory in the box, then pls install and power the outdoor CPE as following pictures:



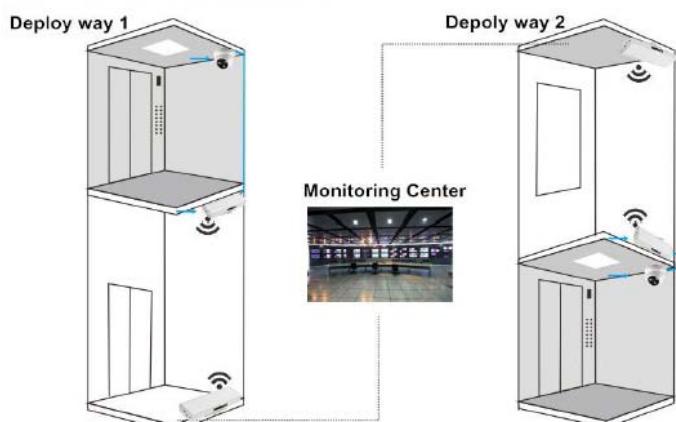
### P2 Power Connection and Installation

## Chapter 2: Working Diagram

Then outdoor CPE with panel antenna, mostly for Point to Point and Point to multi Point connections.

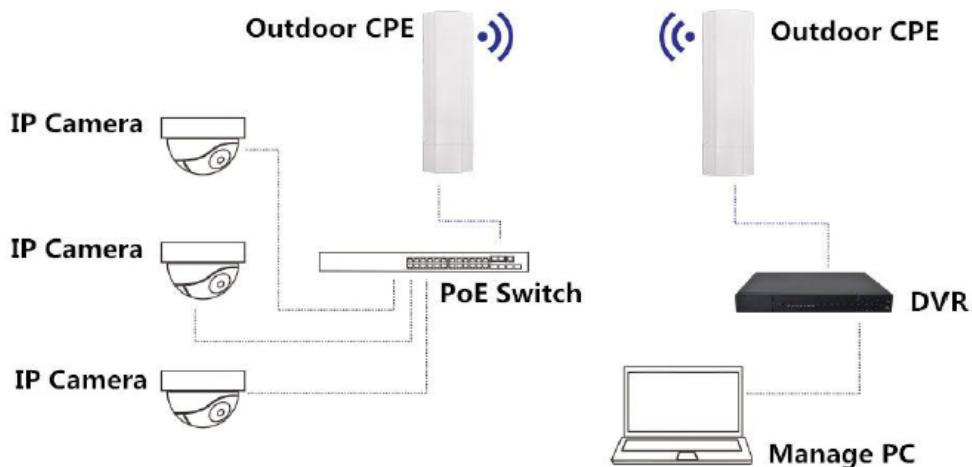
Take outdoor CPE work with IP camera for example to show the working diagram:

### A. PTP Working Diagram of Outdoor CPE work in Elevator:



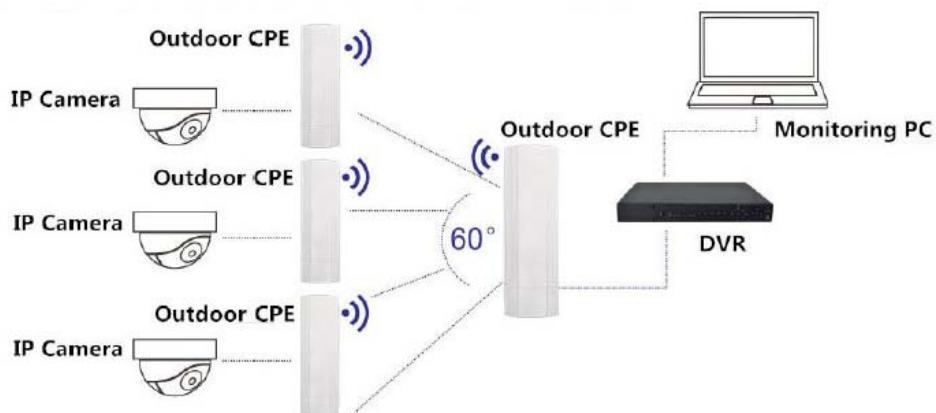
P3: Working diagram

**B. PTP Working Diagram of Outdoor CPE work with Multiple IP Camera:**



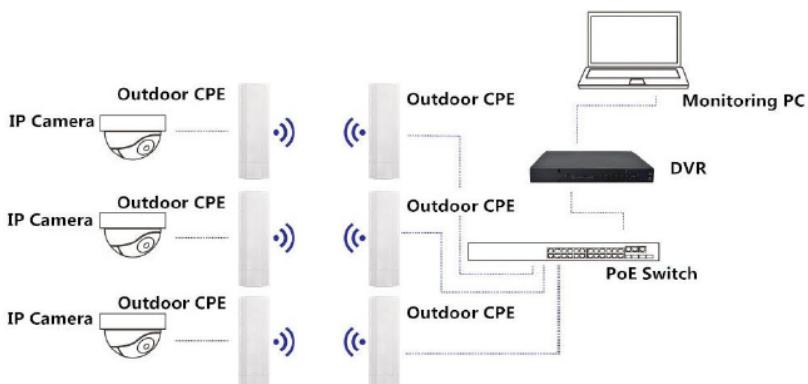
P4: Working diagram

**C. PTMP Working Diagram of Outdoor CPE work with IP Camera:**



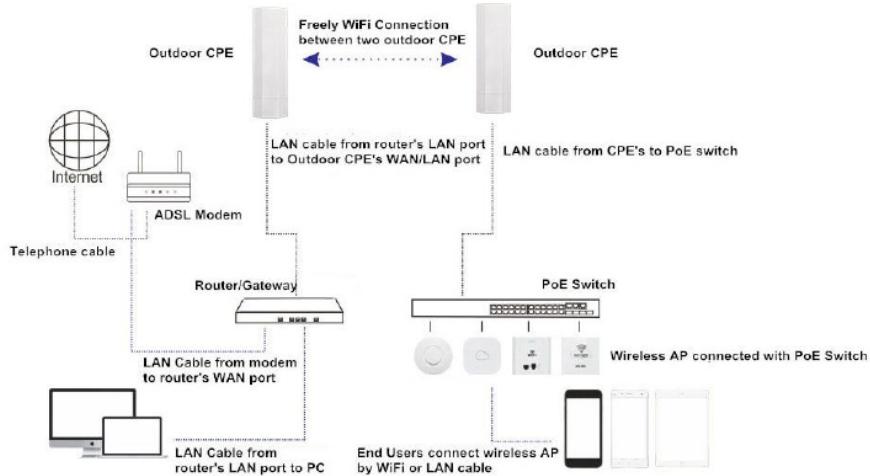
P5: Working diagram

**D. PTMP Working Diagram of Outdoor CPE work with Multiple IP Camera:**



P6: Working diagram

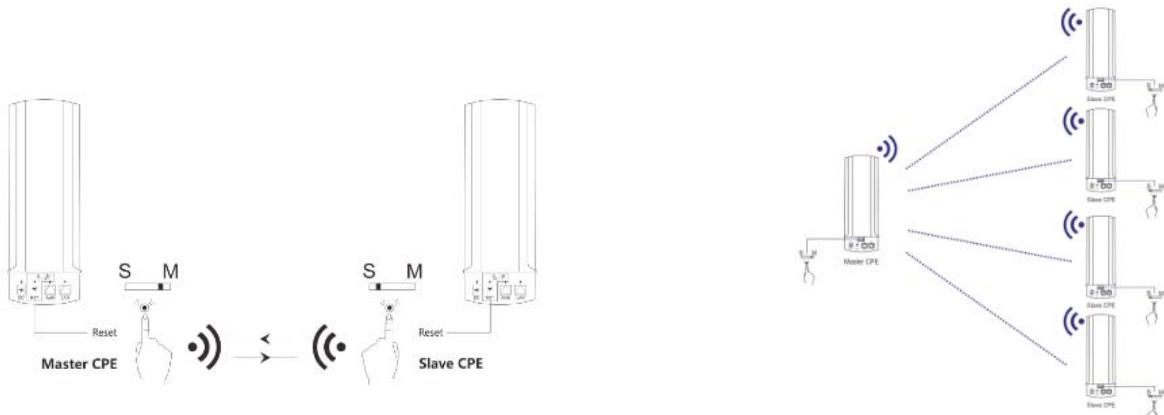
## E. PTP Working Diagram of Outdoor CPE applied to Wireless Coverage:



P7: Working diagram

## Chapter 3: WDS Switch Button Configuration

This Outdoor CPE support Wireless AP, Gateway, WISP, Wireless Bridge, WDS operation mode, effective solution for PTP, PTMP application and outdoor long range wifi coverage application. What's more, there is WDS button on the case, easy to do PTP,PTMP connection by press the WDS button and reset button, no need to access into product GUI.



P9: WDS Switch Button

Here we are show how to the connection by press the WDS switch button:

S: Mean Slave AP

M: Mean Master AP

When WDS switch button on M side, mean this outdoor CPE is a master AP;

When WDS switch button on S side, mean this outdoor CPE is an slave AP

**Remark:**

The master AP can connect with 1~4 slave AP

The WDS switch button in S side in default

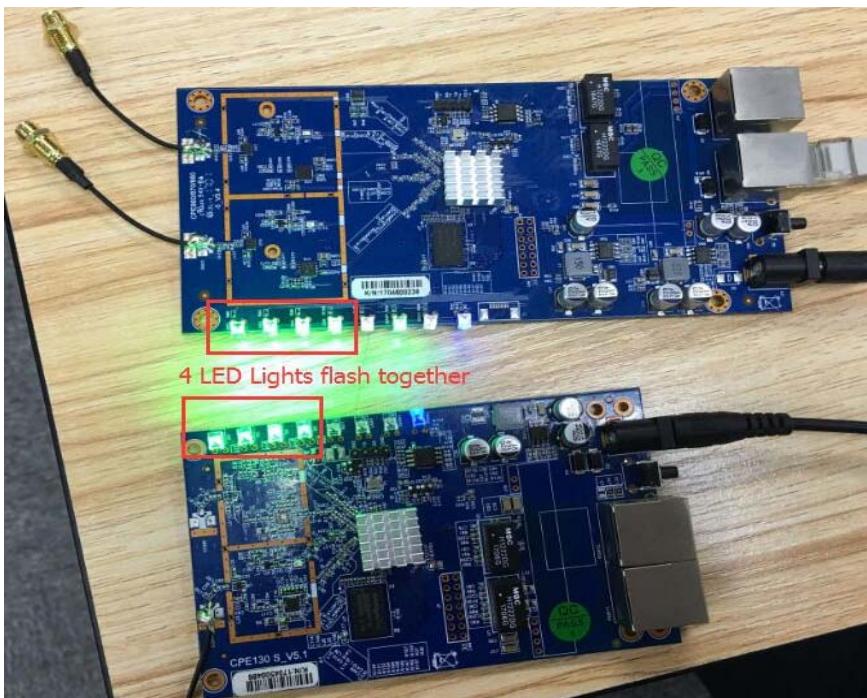
The default IP address of master AP and slave AP is 192.168.288.253.

**Operation:**

1<sup>st</sup> : Power on the Master AP and Slave AP;

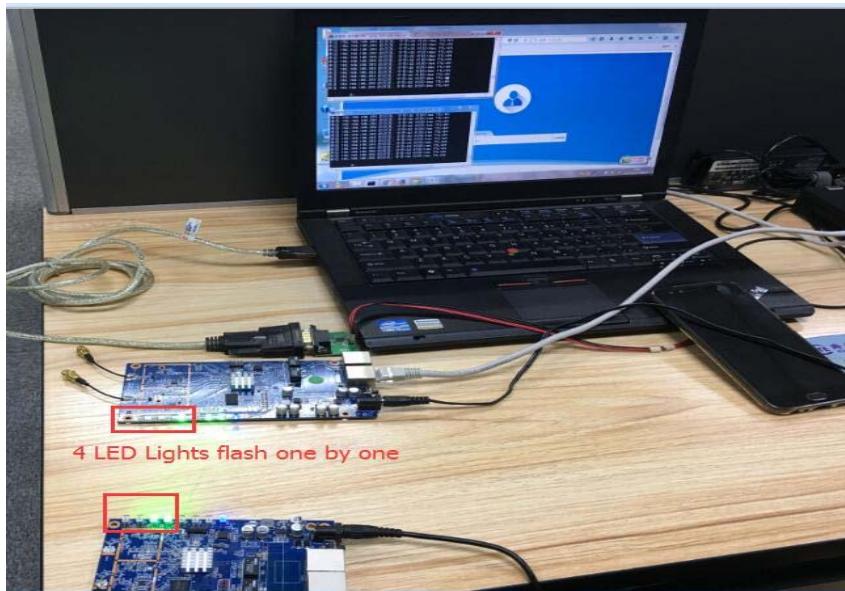
2<sup>nd</sup>: Push the WDS switch button to M side on Master AP, Master AP's IP address will change to 192.168.188.252.

3<sup>rd</sup>: Press the reset button on master AP and Slave AP together in 1 second, then 4 signal LED light will flash together like following picture:



P10: LED Light Status

4<sup>th</sup>: Wait a while, the slave AP will connect with master AP automatically, then master AP and slave AP LED signal LED lights flash one by one as following picture:



P11: LED Light Status

If there are 2~4 Slave APs, the 4 steps will change to as follow:

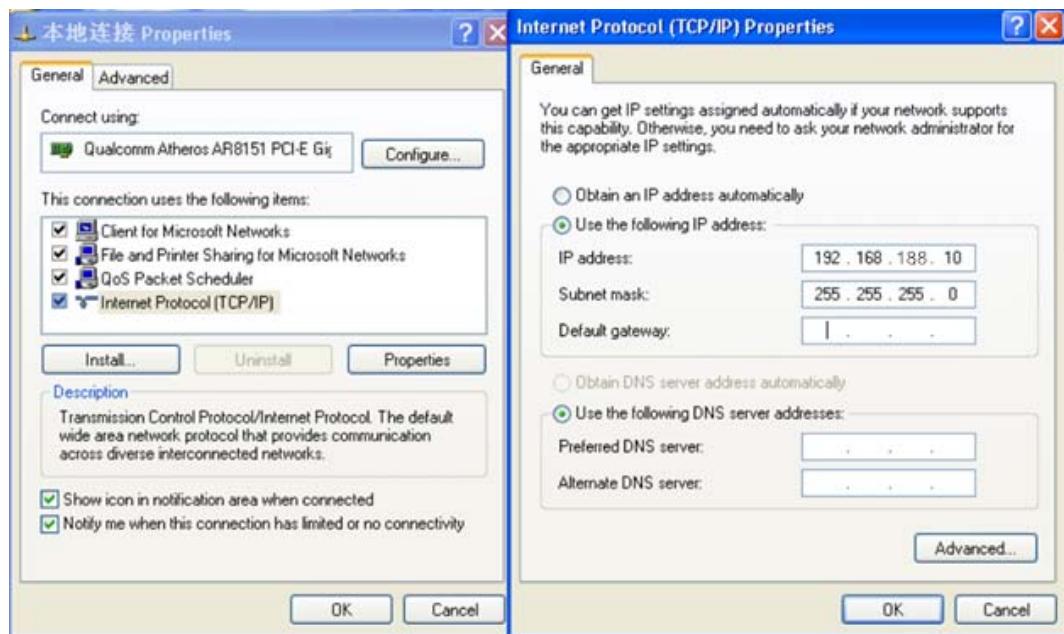
Press the reset button around 1 second on the 2nd slave AP, 3rd slave AP, 4th slave AP, and finish this step in 2 mins, then all slave AP will connect with master AP automatically; The LED lights status is same.

## Chapter 4: WEB GUI Login

- 1) Connect the Outdoor CPE with computer by wired or wireless
- 2) The default IP address of this outdoor CPE is 192.168.188.253, Configure the PC's local connection IP address as 192.168.188.X (X is number from 2 to 254), subnet mask is 255.255.255.0, follow P4 and P5 to finish.

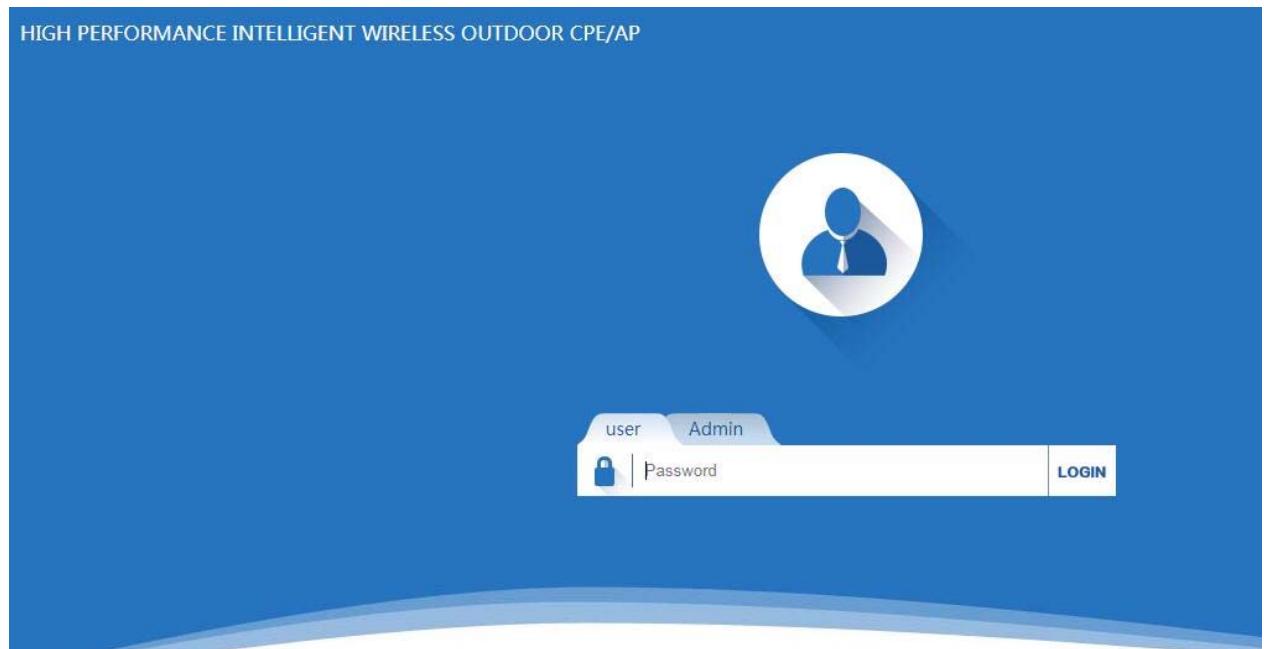


P12 Setting of computer's IP address



P13 Setting of computer's IP address

Input 192.168.188.253 into IE browser, then pop up the login page, there are user/admin login page, input admin to login the user page; or input root to login the admin page.



P14 Login

Pls note, In user page, mainly to introduce the WDS operation mode, but in admin page, mainly to introduce wireless AP, Gateway, WiFi Repeater, WISP, WDS operation mode.

## Chapter 5 : WEB GUI interface Setting:

### 5. 1 User Login Page:

After Login in the user, then will pop up the CPE working status picture showed as follow:

In this page, show the AP's default operation mode, channel, end user QTY, connection status, CPU usage status, Wireless, LAN and AP location info.

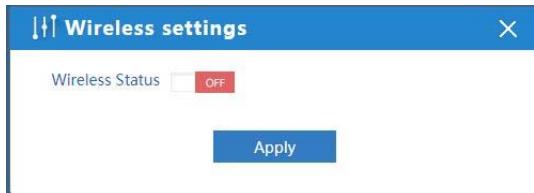


P15: Device Status

### 5.1.1 Wireless Setting

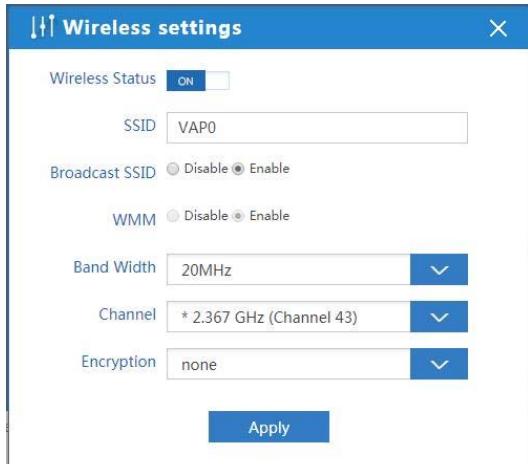
The default is wireless off, if need wireless on, GUI configuration page showed as below:

Click 2.4G, will pop up following window, click wireless status to enable wireless.



P16: Wireless Settings

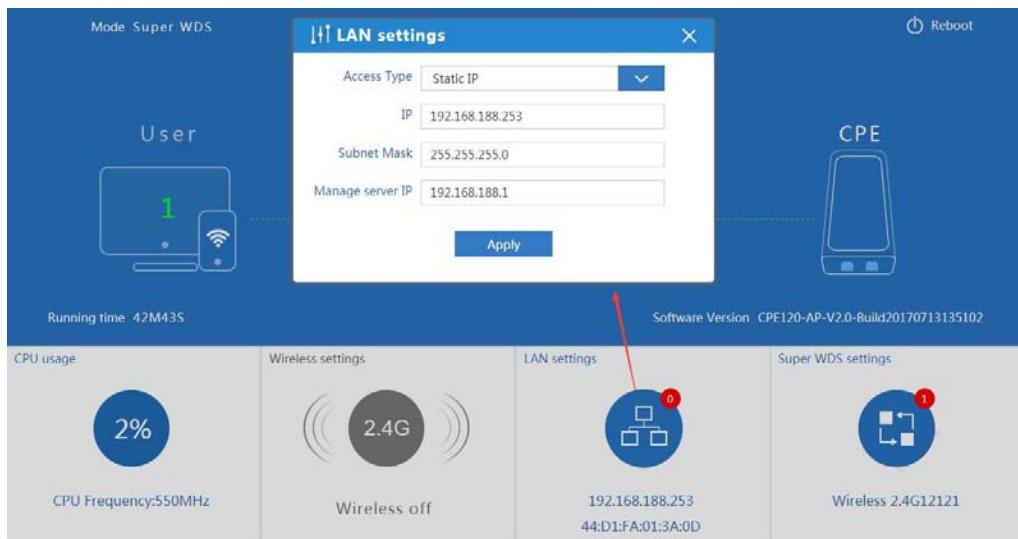
User can configure the SSID, password, bandwidth, channel in the above picture, then Apply to finish.



## P17. Wireless setting

### 5.1.2 LAN Setting

To setup the outdoor CPE's management IP address, configure the DHCP or Fix IP



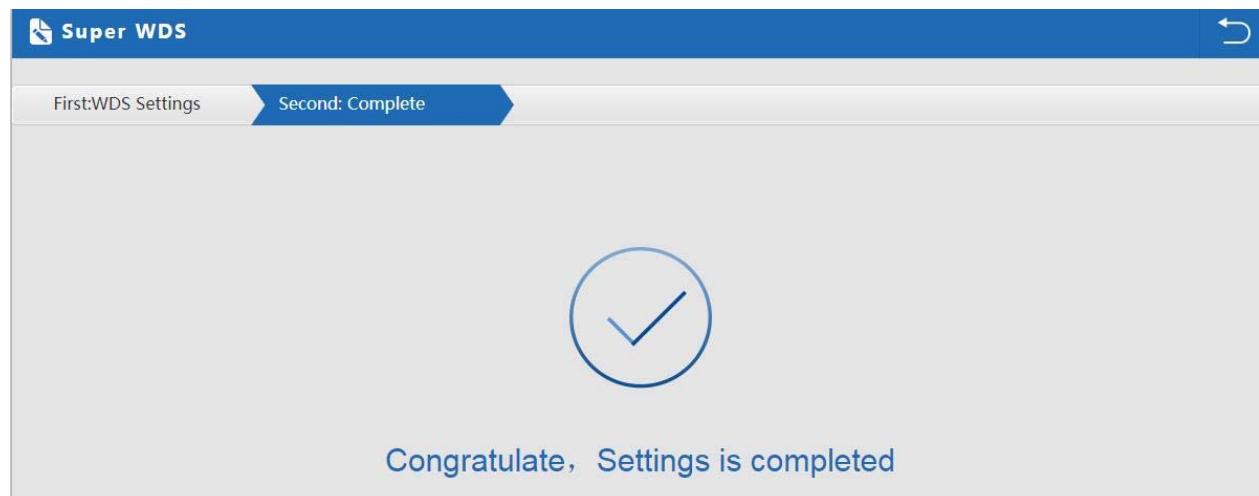
P18 LAN Setting

### 5.1.3 Super WDS Settings

In super WDS settings, it mean the outdoor CPE will do the WDS operation mode.

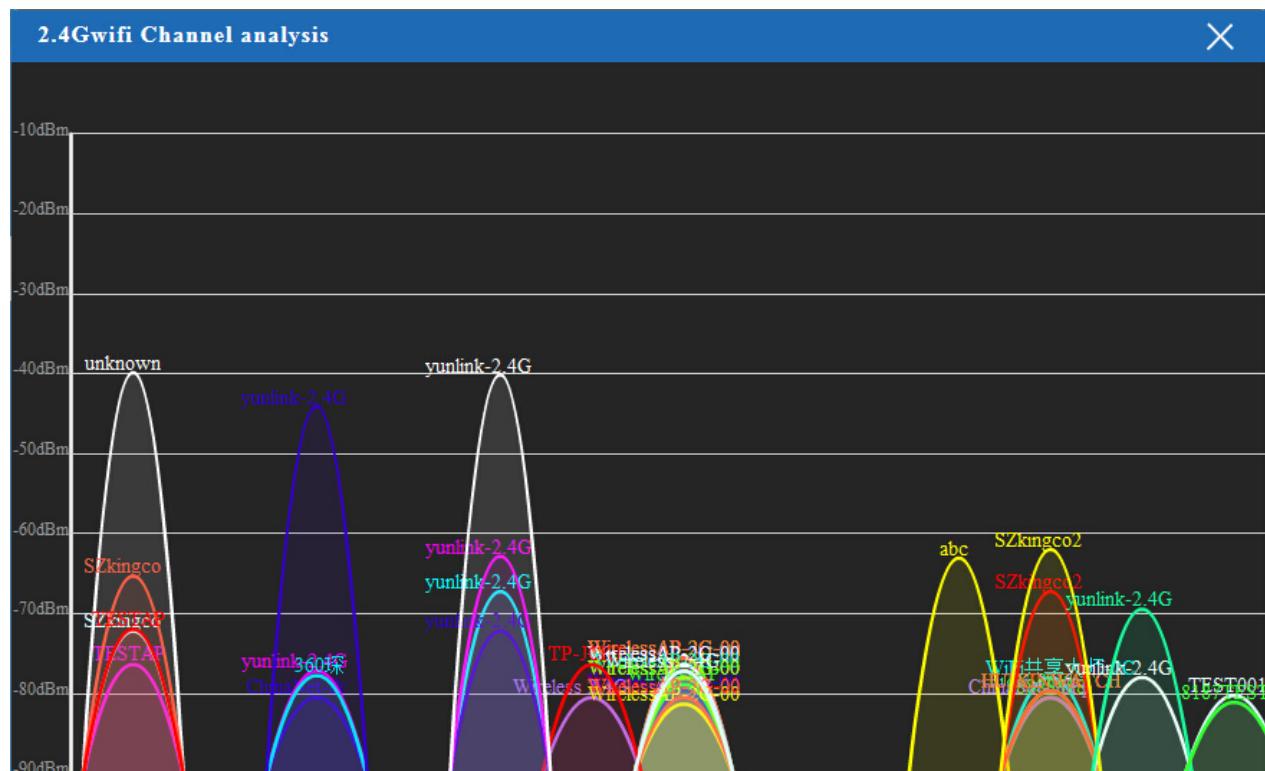
Click Super WDS settings, will pop up following picture:

Config the SSID, Channel, Bandwidth, location for the master wireless AP, then input the slave wireless AP's MAC address, max can banding with 4PCS slave wireless AP, click next to finish and waiting the data saving.



P19 Super WDS Setting

Please note, to make the master AP work in best channel, user can use the wireless analyzer, to choose the channel that with small wireless AP.



## P20 wireless analyzer

### 4.1.4 Wizard

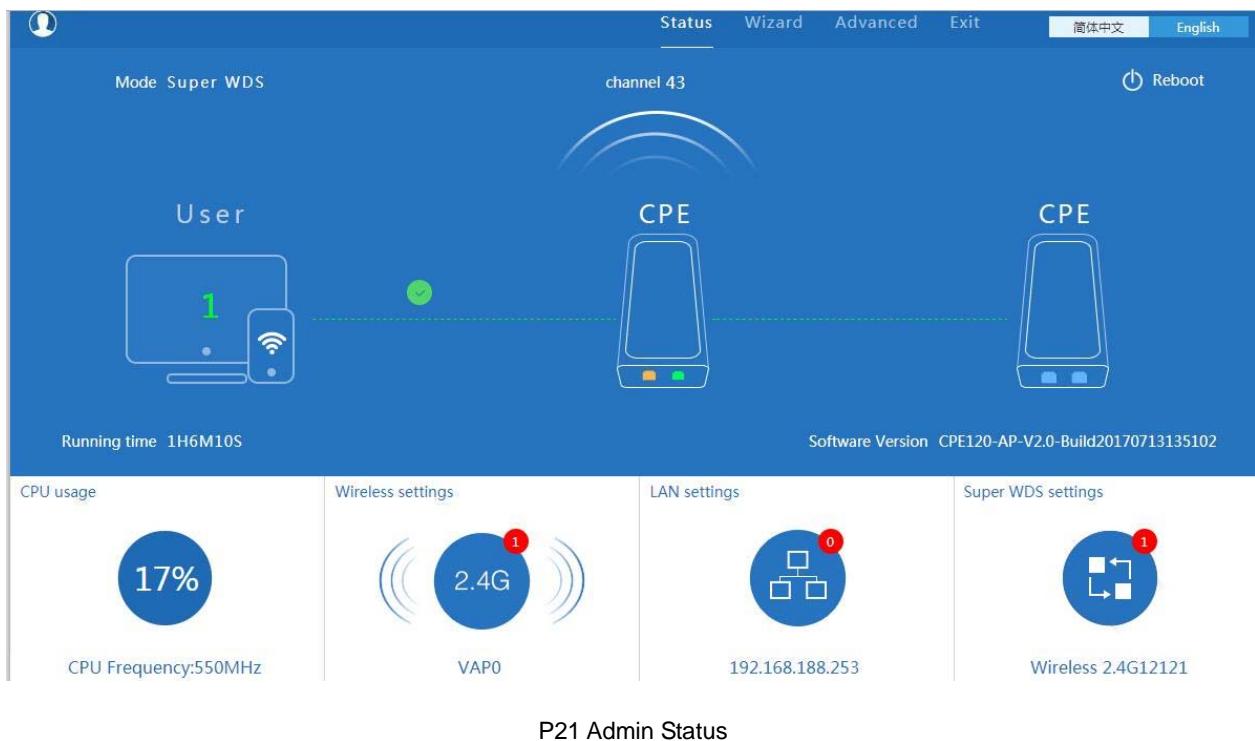
In Wizard, it is same configuration of 4.1.3: Super WDS settings

### 4.1.5 Advanced

Will show more in 4.2

## 4.2 Admin Login

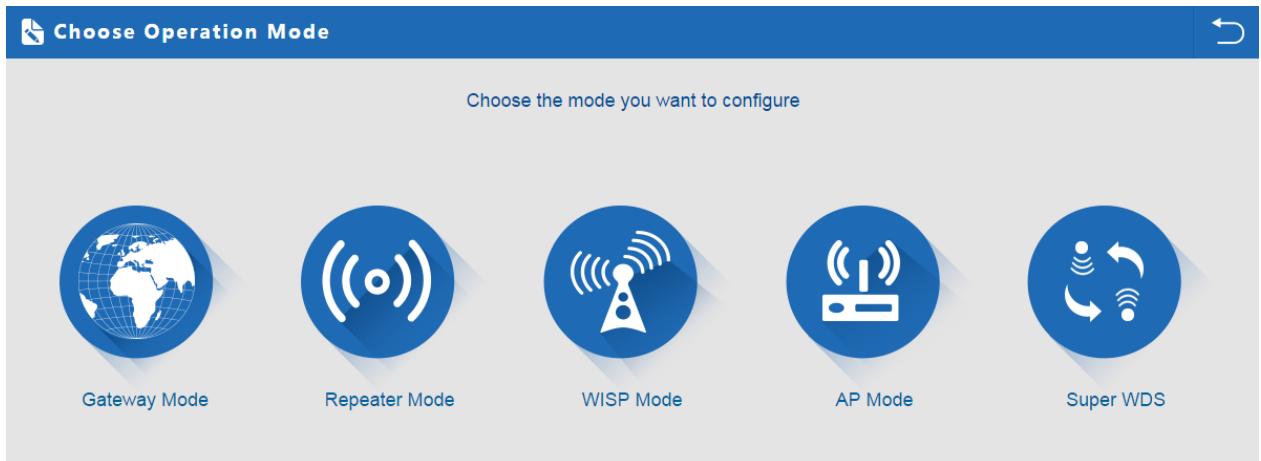
In admin page, the status is almost same as the user page; Can check 4.1 user login for more details;



### 5.2.1: Wizard

In admin login, and in Wizard, there are gateway, repeater, WISP, AP and Super WDS operation mode, Please confirm the operation mode first before configuration starting.

Click Wizard in Status page, will pop up following page to configure the operation mode and there are explanation for each operation mode for better application.

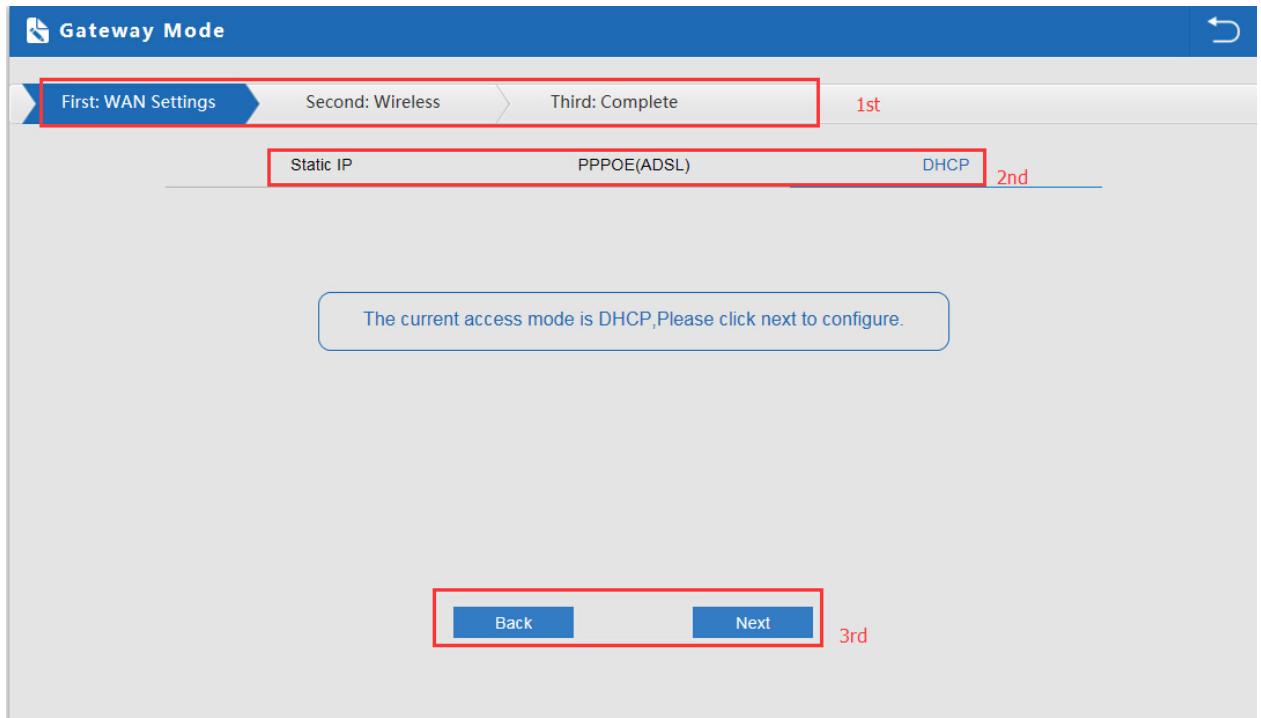


P22 Operation mode

#### 5.2.1.1 Gateway Mode:

Before Click Gateway mode, confirm your internet will be static IP, PPPoE, or DHCP:

Then will pop up following picture after click it, Please choose the right WAN setting mode, then click next to continue.



P23. WAN setting in Gateway Mode

**Gateway Mode**

First: WAN Settings      Second: Wireless      Third: Complete

**Wireless Settings**

Wireless Settings

WLAN Status: ON      wireless analyzer

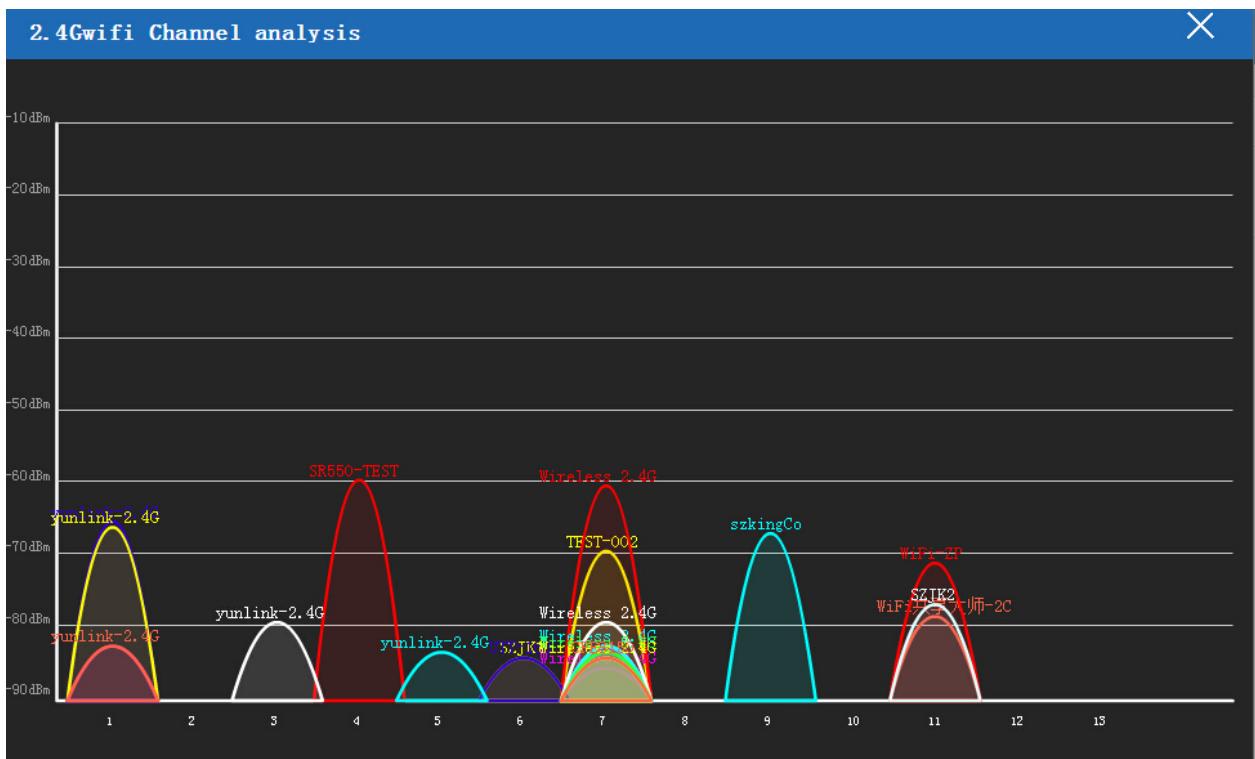
SSID: Wireless 2.4G      Channel: \* 2.442 GHz (Channel 7)

Encryption: WPA2PSK\_TKIPAES      Key: 66666666

Back      Next

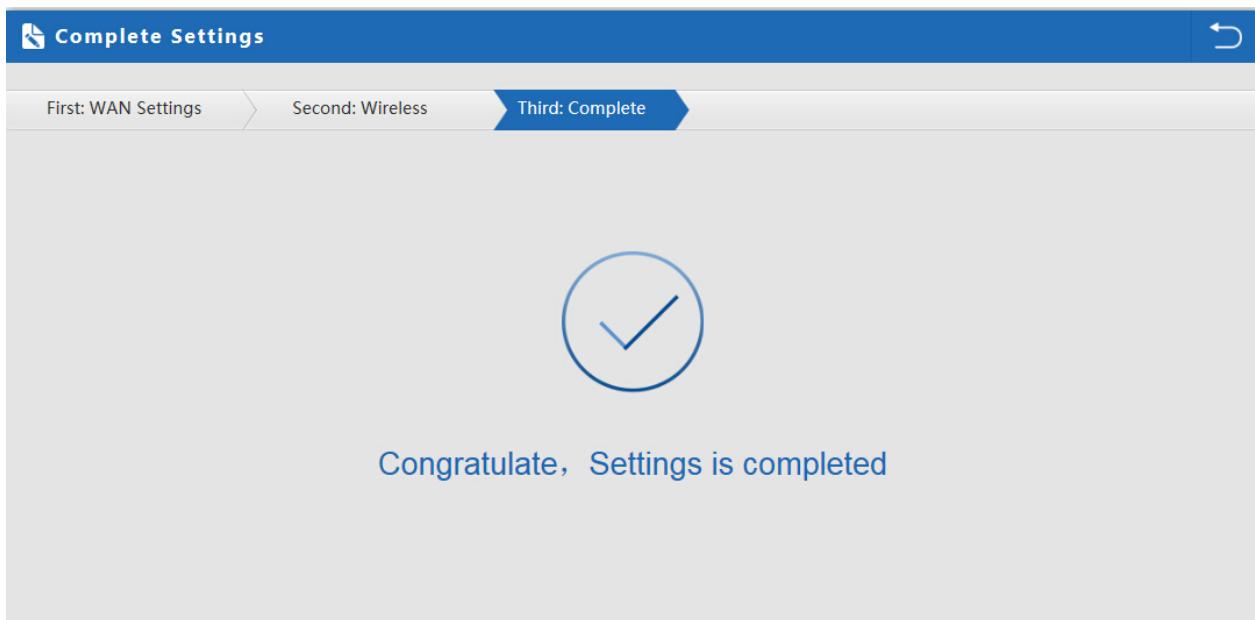
P24 Wireless Setting in Gateway Mode

Please note: to make the outdoor CPE work in some clear channel, user can click wireless analyzer at first. Less AP in the channel, then Wireless performance will be more stable. Picture showed as below:



P25 Channel Analysis

When click Next, then will complete the Gateway mode setting and show following picture:



P26 Complete the setting in Gateway Mode

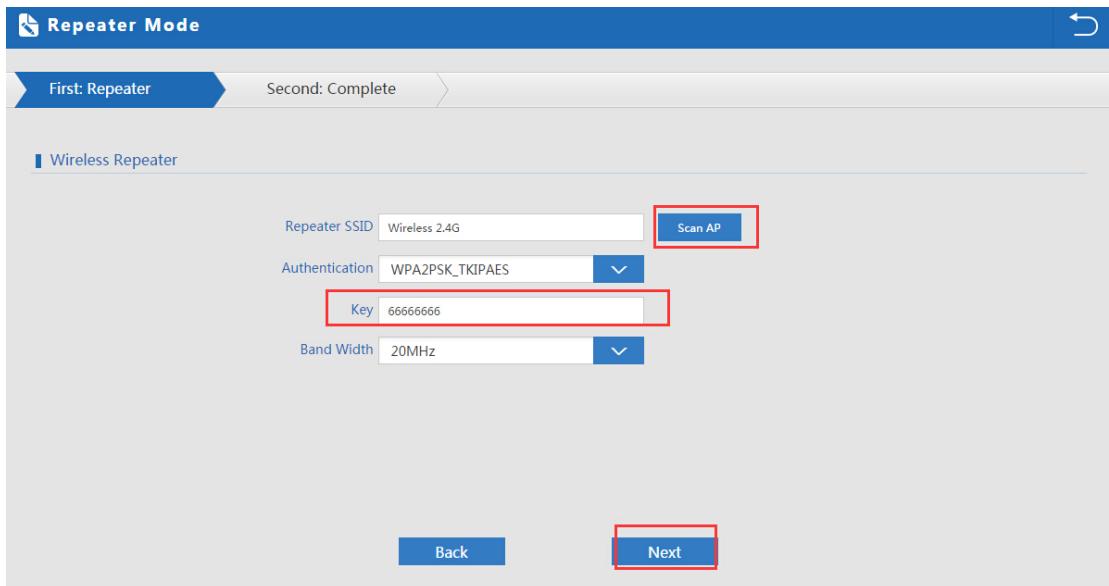
When return to Status, will show wireless router's SSID, internet connection, LAN connection status showed as follow:



P27 Status in Gateway Mode

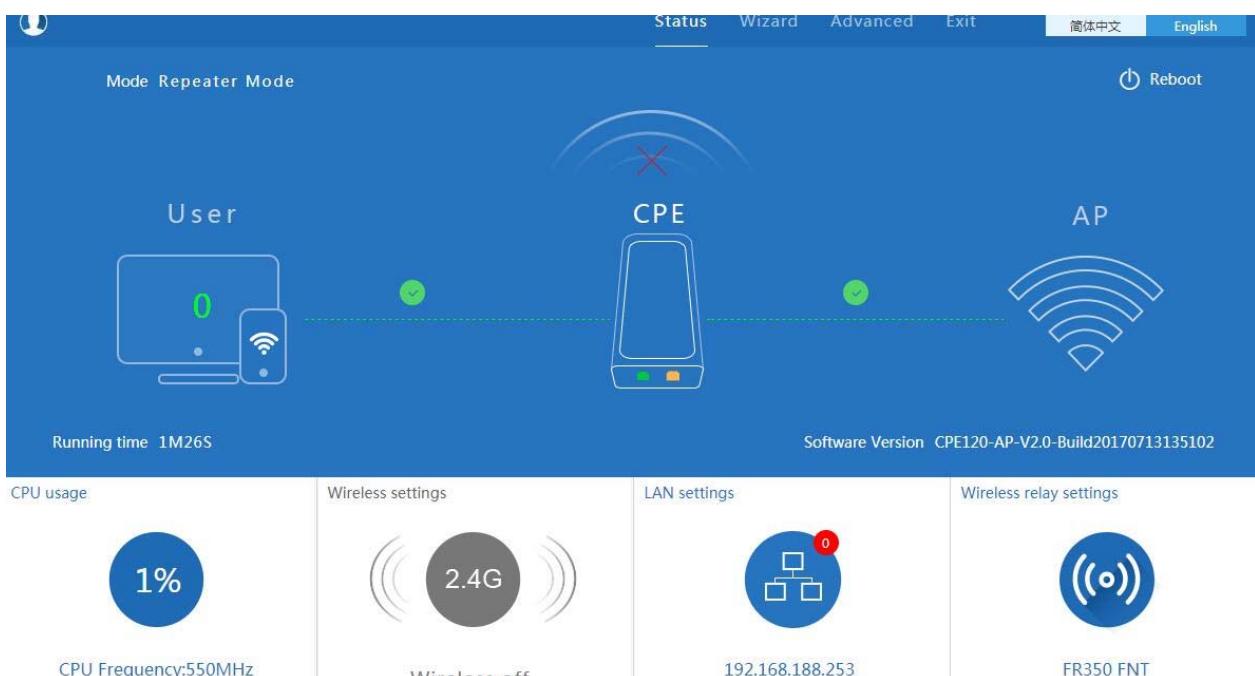
### 5.2.1.2 WiFi Repeater mode

- Login the Web management page, click "Wizard", then "WiFi Repeater"
- Select the AP's SSID want to bridge, take "wireless 2.4G" for example, then input the AP's key, click next to complete



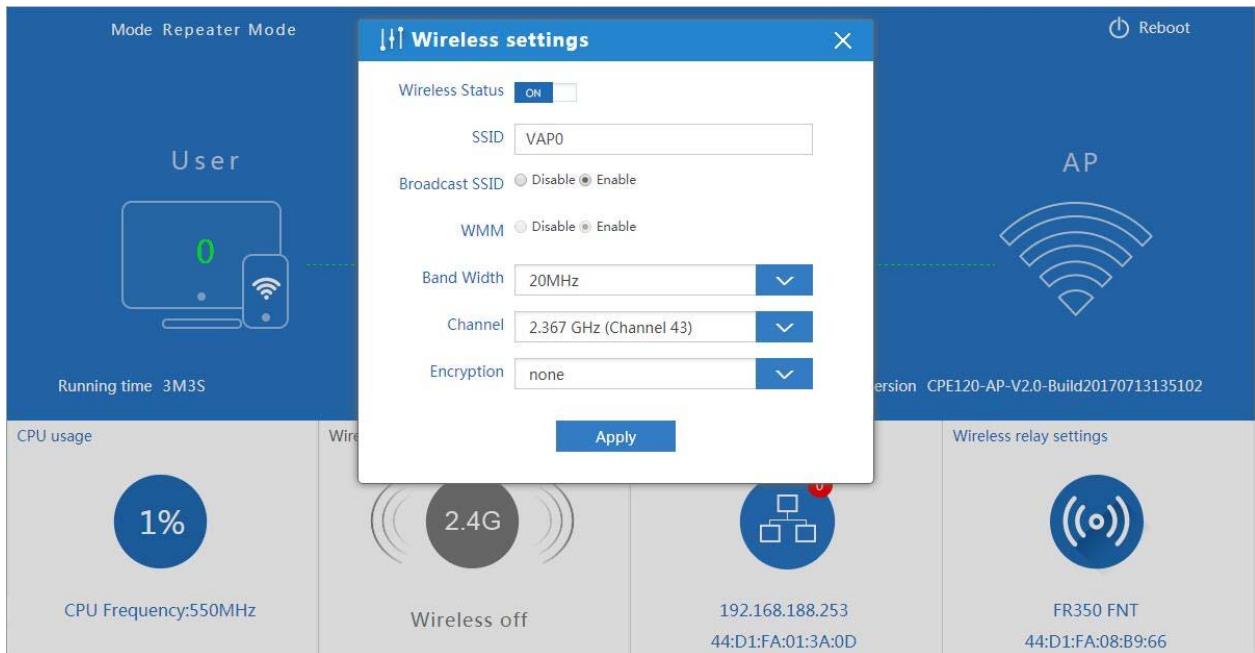
P28 Repeater Mode

Click Return button, will back to Status, show Repeater mode data, show fail or success, and user can configure this data in this page if required.



P29 Status in Repeater Mode

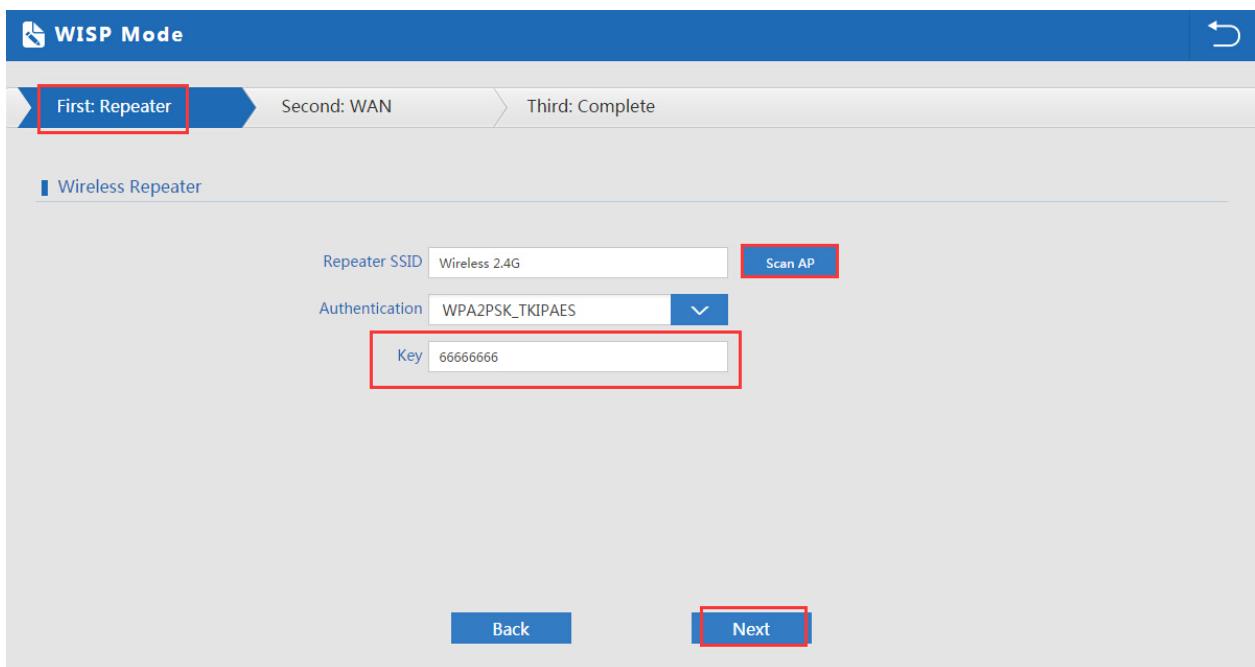
In wifi repeater operation mode, the default is SSID disable. If want to enable SSID, then click Wireless Setting.



P30 Wireless Setting

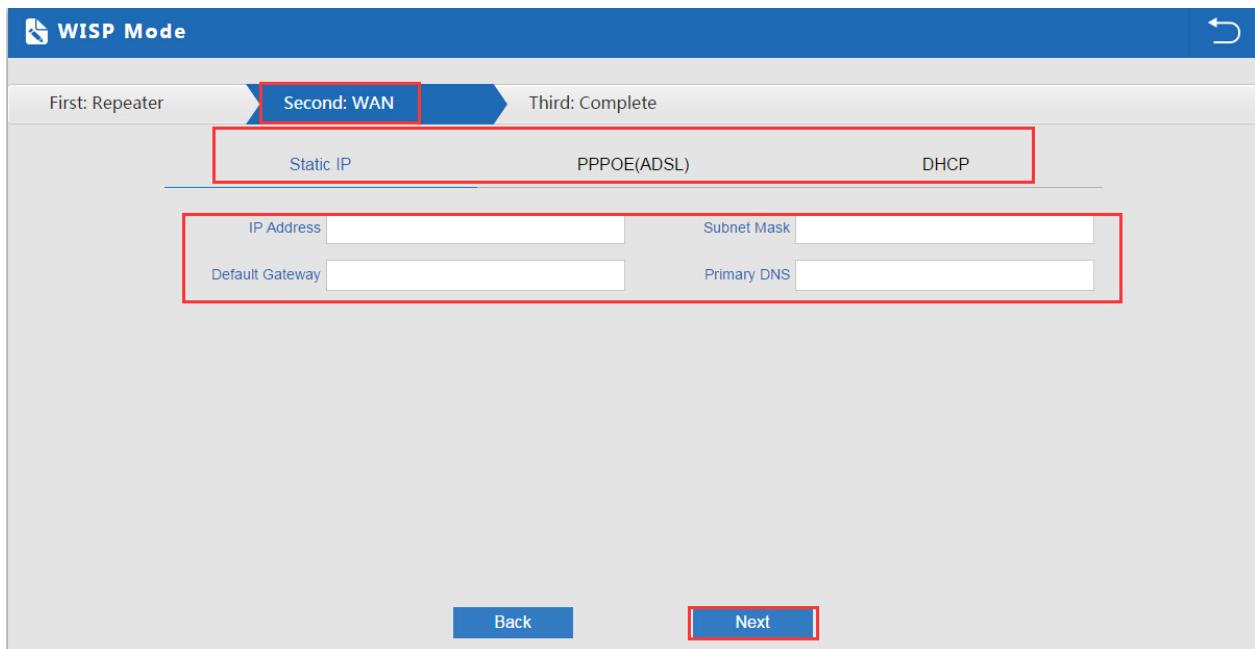
#### 5.2.1.3 WISP Operation mode:

Click WISP operation mode in Wizard, then will pop up the configure page, pls set the WISP operation mode based on the steps showed in picture:



P31 WISP Mode

Configure the right WAN setting in WISP operation mode, then next to complete



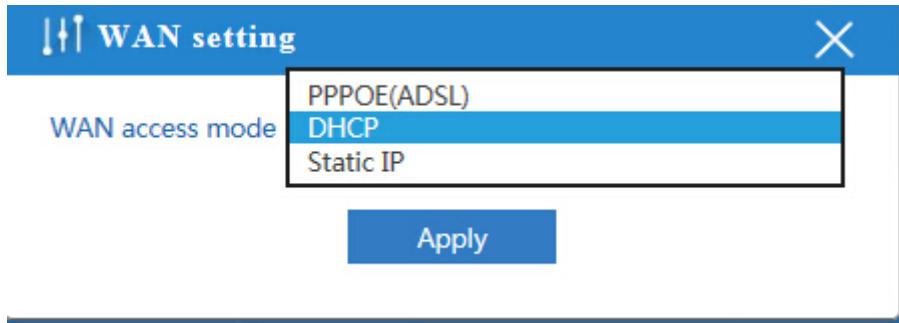
P32 WAN setting in WISP mode

Then complete and back to status, will show the connection fail or success, then can configure the data based on request:



P33 Status in WISP mode

Remark: When click WAN Setting, will pop up following picture to ask you choose PPPoE, DHCP or Static IP



P34 WAN setting in WISP mode

#### 5.2.1.4 AP Operation mode:

Set the wireless data, AP Location info as required, then click next to continue and enter into LAN setting.

After LAN setting, complete the AP mode configuration and back to Status:

The screenshot shows the 'AP Mode' configuration interface. At the top, it says 'AP Mode' and has a back arrow icon. Below that, a progress bar indicates 'First: Wireless' (highlighted with a red box), 'Second : LAN', and 'Third:Complete'. The main area is titled 'Wireless Settings' and contains the following fields:

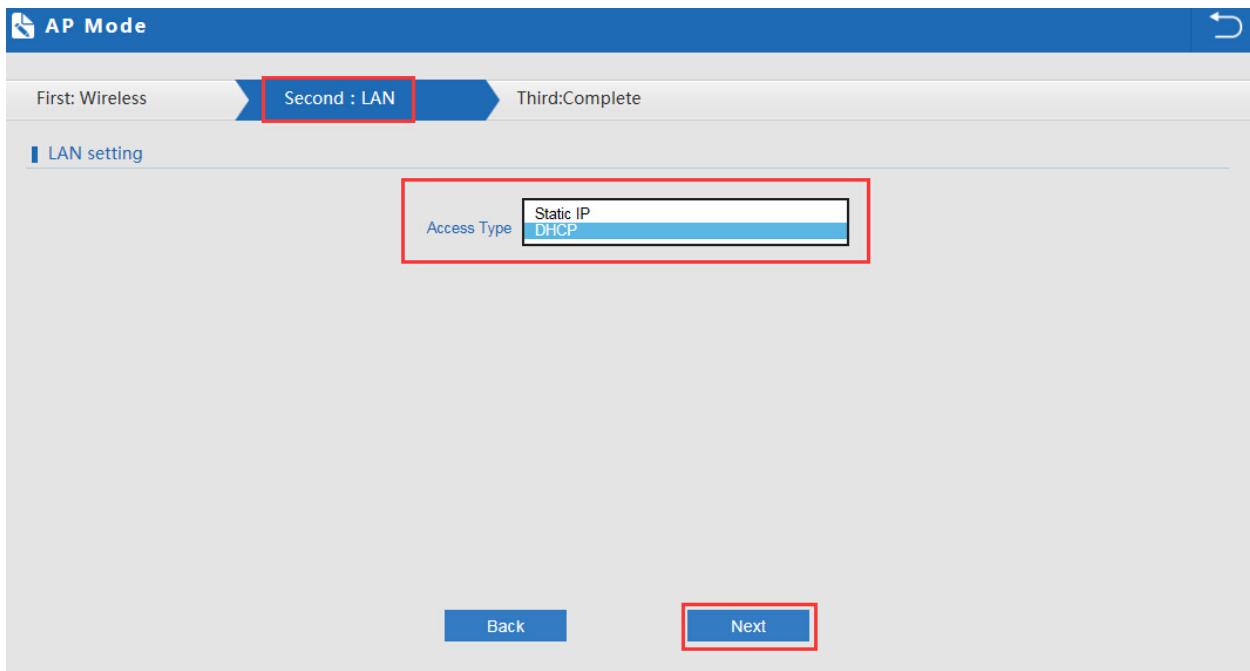
- 'WLAN Status' with 'ON' selected (highlighted with a red box).
- 'SSID' set to 'MachPower2.4'.
- 'Channel' set to '2.442 GHz (Channel 7)'.
- 'Encryption' set to 'WPA2PSK\_TKIPAES'.
- 'Key' set to '12345678'.

Below this is a section titled 'Location Information' with fields:

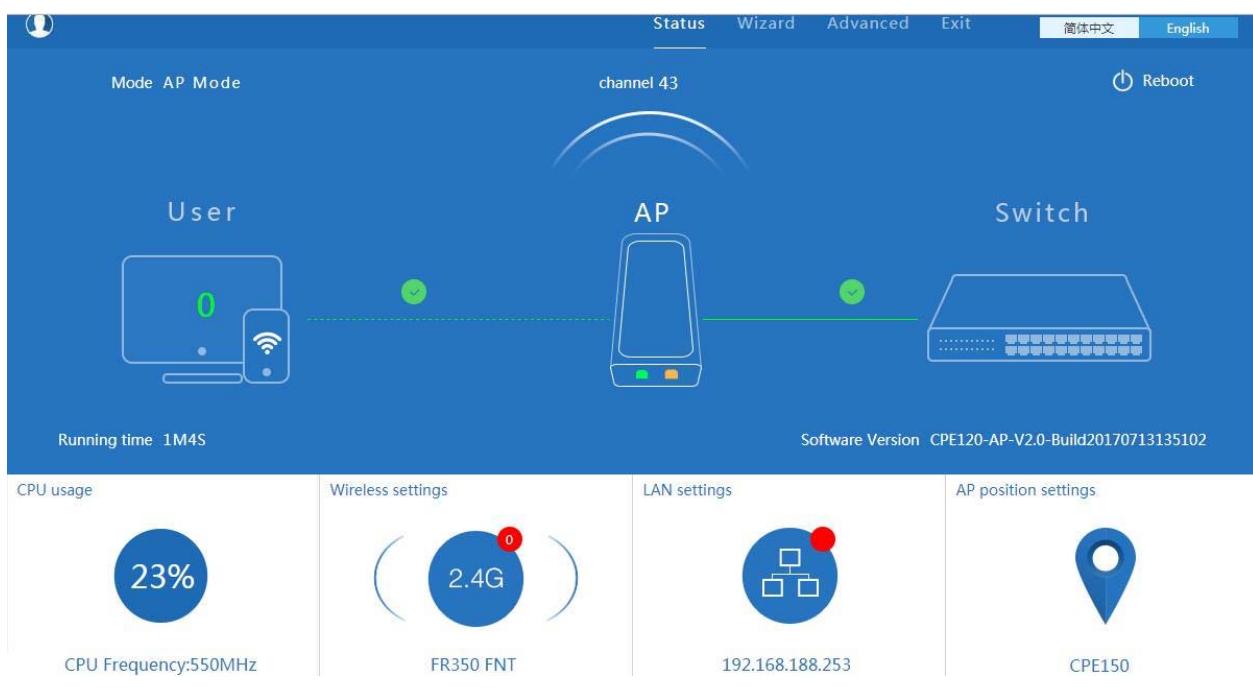
- 'AP Location' set to 'Meeting Room'.
- 'AP Name' set to '5th AP in office'.

At the bottom are two blue buttons: 'Back' and 'Next' (highlighted with a red box).

P35 Wireless setting in AP Mode



P36 LAN Setting in AP Mode



P37 Status in AP Mode

#### 5.2.1.5 Super WDS mode:

In this part, pls refer to 4.1 Part.

### 5.3 Advanced Setting:

In advanced setting, mainly for outdoor CPE's device status, wireless setting, Networking setting and management

configuration.

Let's Click Advanced Setting in status page, will show return home, Setup Wizard which we showed in the advance chapters.

Let's shown more in Device Status, Wireless, Network and Management in following pages:

### 5.3.1 Device Status

This part to show the outdoor CPE's status, Wireless Status and LAN status.

In status, mainly to check the ceiling outdoor CPE's firmware version, hardware version, uptime info.:

The screenshot shows the 'Advanced Settings' interface. On the left sidebar, 'Device Status' is highlighted with a red box. In the main content area, the 'Status' tab is selected, also highlighted with a red box. A detailed status box contains the following information:

Software Version	XD9500Q-AP-V2.0-B20160429105829
Hardware Version	V5.0
Uptime	3M10S

P38 Device Status

In wireless status, to show outdoor CPE's SSID, MAC address for WiFi, Channel, Encryption, Client List info.

The screenshot shows the 'Advanced Settings' interface. On the left sidebar, 'Device Status' is highlighted with a red box. In the main content area, the 'Wireless Status' tab is selected, highlighted with a red box. A detailed wireless status box contains the following information:

Wireless Status	Enable
SSID	MachPower2.4
MAC	78:D3:8D:E0:90:D5
Channel	7
Encryption	WPA2PSK_TKIPAES
Connected Users	0

A blue 'Client list' button is visible at the bottom right of the box.

P39 Wireless Status

In LAN Status, we can check outdoor CPE's IP address, Subnet Mask, LAN MAC address and other info showed in

following picture.

The screenshot shows the 'Advanced Settings' interface for a P40 device. The left sidebar has icons for 'Return home', 'Setup Wizard', 'Device Status' (highlighted with a red box), 'Wireless', 'Network', and 'Management'. The main area has tabs for 'Status', 'Wireless Status', and 'LAN Status' (also highlighted with a red box). A sub-tab 'LAN Status' is selected. On the right, a large red box highlights the following network details:

- LAN IP: 192.168.188.253
- Subnet Mask: 255.255.254.0
- MAC: 78:D3:8D:E0:90:D3
- Manage server IP: 192.168.188.1
- DHCP Status: Disable
- DHCP address range: 192.168.188.2 — 192.168.188.252
- Assigned IP: 0
- DHCP list button

P40 LAN Status

### 5.3.2: Wireless:

For wireless, mainly to configure the wireless SSID, password, encryption, channel, Multi SSID, tag VLAN, RF power adjust from Basic Setting, Virtual AP, Access control and Advanced Setting:

**Basic Settings:** To configure WDS outdoor CPE's SSID, channel, bandwidth, MAC address and Encryption

The screenshot shows the 'Advanced Settings' interface under the 'Wireless' tab. The left sidebar includes 'Return home', 'Setup Wizard', 'Device Status' (highlighted with a red box), 'Wireless' (selected), 'Network', and 'Management'. The main area has tabs for 'Basic Settings' (highlighted with a red box), 'Virtual AP', 'Access Control', and 'Advanced Settings'. Under 'Basic Settings', the 'Super WDS settings' section is active. It contains fields for SSID (FR350 FNT), Band Width (20MHz), Channel (\* 2.367 GHz (Channel 43)), Onekey AiConnect (ON), and MAC addresses (MAC1 to MAC4) with their corresponding 'Scan AP' buttons. An 'Encryption' dropdown is set to 'Open'.

P41 Basic Setting in Wireless

### Virtual AP:

There are 3 virtual AP in 2.4G wireless, if need do multi SSID, then users can configure it showed in following picture:

Advanced Settings

- Basic Settings
- Virtual AP**
- Access Control
- Andvanced Settings

Virtual AP

Virtual AP1	Virtual AP2	Virtual AP3
Wireless Status: ON SSID: VAP0 Broadcast SSID: <input checked="" type="radio"/> Disable <input type="radio"/> Enable WMM: <input checked="" type="radio"/> Disable <input type="radio"/> Enable Encryption: none		

Apply

P42 Virtual AP

#### Access Control:

Allow or deny the users access into this wireless AP based on MAC address

Advanced Settings

- Basic Settings
- Virtual AP
- Access Control**
- Andvanced Settings

Wireless Access Control

Access Control

- MAC Access All
- MAC Access All**
- Allow Listed
- Deny Listed

Apply

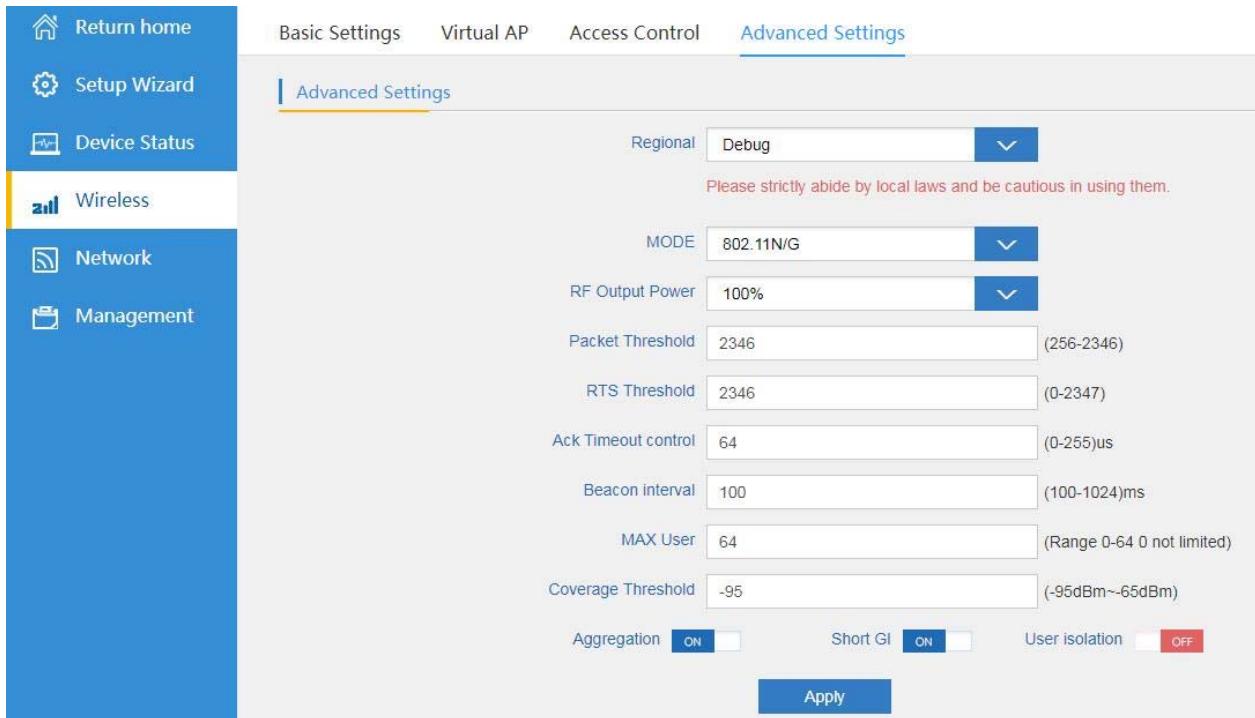
P43 MAC Access Control

#### Advanced Settings:

In this page, will show the regional, mode, RF Power, Max user access...

Remark:

In Regional, the default is Debug, which including the frequency of 2.312GHz to 2.4835GHz, but some local laws will prohibit this, so, pls strictly abide by local laws and be cautious in using them.

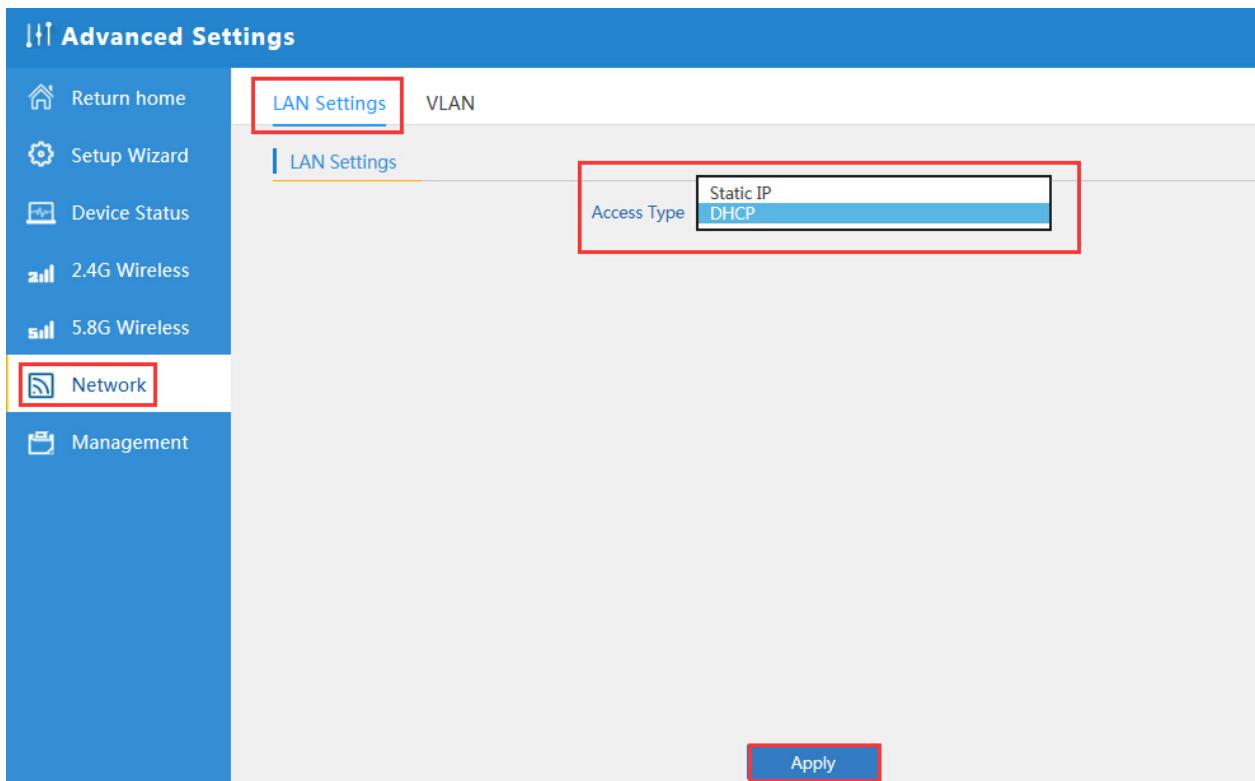


P44 Advanced Setting

### 5.3.3 Network:

In network, mainly to show the LAN setting and tag VLAN as follow:

In LAN Settings, mainly including static IP and DHCP.



P45 Network Setting

In VLAN part, need an VLAN switch and make sure the multi SSID is enable, then input the VLAN ID to different SSID.

## P46 Tag VLAN Setting

#### **5.3.4 Management:**

In this part, show the system time, Logs, upgrade firmware, system, user info.

And we show System time, how to upgrade firmware and system page to users:

The screenshot shows the 'Advanced Settings' interface with a blue header bar. On the left is a vertical sidebar with icons for 'Return home', 'Setup Wizard', 'Device Status', 'Wireless', 'Network', and 'Management'. The 'Management' icon has a yellow highlight underneath it. The main area has a white background with a navigation bar at the top containing tabs: 'System Time' (which is blue and underlined), 'Signal tracking', 'Logs', 'Upgrade Firmware', 'System', and 'User'. Below the navigation bar, there's a section titled 'System Time' with a sub-section 'System Time' highlighted by a blue underline. It displays the system time as '2015-10-30 10:52:23' and a 'Sync with Host' button. There are also options for 'Auto restart' (set to 0.00) and a dropdown menu for 'three days'.

P47 System Time

In this part, there is signal tracking tool, which will track the wireless signal, and show the signal strength.

**Advanced Settings**

System Time   **Signal tracking**   Logs   Upgrade Firmware   System   User

Signal tracking

SSID:  Scan AP

MAC:  Start Tracking

Signal strength:

track status   cease tracking

In the procedure of signal tracking, the unexpected effects probably occur in Tx/Rx data transaction. Please press "Stop Tracking" button instantly after signal tracking.

#### P48 Signal Tracking

Logs to show the outdoor CPE's operation logs, useful for problem solved.

**Advanced Settings**

System Time   Signal tracking   **Logs**   Upgrade Firmware   System   User

System Logs

Remote Log Server

IP:  Apply

```

Oct 30 10:49:22 CPE120 user.info sysinit: Mode: Master Channel: 9
Oct 30 10:50:15 CPE120 user.info sysinit: Unknown command: <"/dev/null
Oct 30 10:50:15 CPE120 user.info sysinit: Cell 01 - Address: 78:D3:8D:ET:15:B9
Oct 30 10:50:15 CPE120 user.info sysinit: ESSID: "yunlink"
Oct 30 10:50:15 CPE120 user.info sysinit: Mode: Master Channel: 6
Oct 30 10:50:15 CPE120 user.info sysinit: Signal: -95 dBm Quality: 0/94
Oct 30 10:50:15 CPE120 user.info sysinit: Encryption: none
Oct 30 10:50:15 CPE120 user.info sysinit: Frequency: 2437 MHz
Oct 30 10:50:15 CPE120 user.info sysinit: Cell 02 - Address: 78:D3:8D:D3:B6:17
Oct 30 10:50:15 CPE120 user.info sysinit: ESSID: "yunlink"
Oct 30 10:50:15 CPE120 user.info sysinit: Mode: Master Channel: 3
Oct 30 10:50:15 CPE120 user.info sysinit: Signal: -70 dBm Quality: 69/94
Oct 30 10:50:15 CPE120 user.info sysinit: Frequency: 2412 MHz
Oct 30 10:50:15 CPE120 user.info sysinit: Cell 10 - Address: F4:E3:38:59:AC:00
Oct 30 10:50:15 CPE120 user.info sysinit: ESSID: "SZK1"
Oct 30 10:50:15 CPE120 user.info sysinit: Mode: Master Channel: 6
Oct 30 10:50:15 CPE120 user.info sysinit: Signal: -90 dBm Quality: 5/94
Oct 30 10:50:15 CPE120 user.info sysinit: Encryption: mixed WPA/WPA2 PSK (TKIP, CCMP)
Oct 30 10:50:15 CPE120 user.info sysinit: Frequency: 2437 MHz
Oct 30 10:50:15 CPE120 user.info sysinit: Cell 11 - Address: 14:B8:37:1C:67:83
Oct 30 10:50:15 CPE120 user.info sysinit: ESSID: "ChinaNet-Mtfg"

```

#### P49 Signal Tracking

In firmware upgrade page, pls make sure to tick Restore factory settings after firmware upgrade.

The screenshot shows the 'Advanced Settings' interface with a sidebar containing links like 'Return home', 'Setup Wizard', 'Device Status', 'Wireless', 'Network', and 'Management'. The main menu bar includes 'System Time', 'Signal tracking', 'Logs', 'Upgrade Firmware' (which is underlined), 'System', and 'User'. The 'Upgrade Firmware' section displays the software version 'CPE120-AP-V2.0-Build20170713135102'. It has a 'Choose File' button with a placeholder '选择文件' (Select file) and an 'Upgrade' button. There is also a checked checkbox for 'Restore factory settings'. A note at the bottom says 'Note: do not power off the device during the upload because it may crash the system!'

### P50 Firmware Upgrade

In System, this is for firmware backup or restor, or reset to default. Or reboot, mostly for problem solve.

The screenshot shows the 'Advanced Settings' interface with a sidebar containing links like 'Return home', 'Setup Wizard', 'Device Status', 'Wireless', 'Network', and 'Management'. The main menu bar includes 'System Time', 'Signal tracking', 'Logs', 'Upgrade Firmware', 'System' (which is underlined), and 'User'. The 'System' section contains a 'Save/Reload Settings' section with 'Backup' (with a 'Backup' button), 'Restore' (with a '选择文件' placeholder and a 'Restore' button), 'Reset Default' (with a 'Reset Default' button), and 'Reboot' (with a 'Reboot' button).

### P51 System info

User: user can change the login password based on their needs:

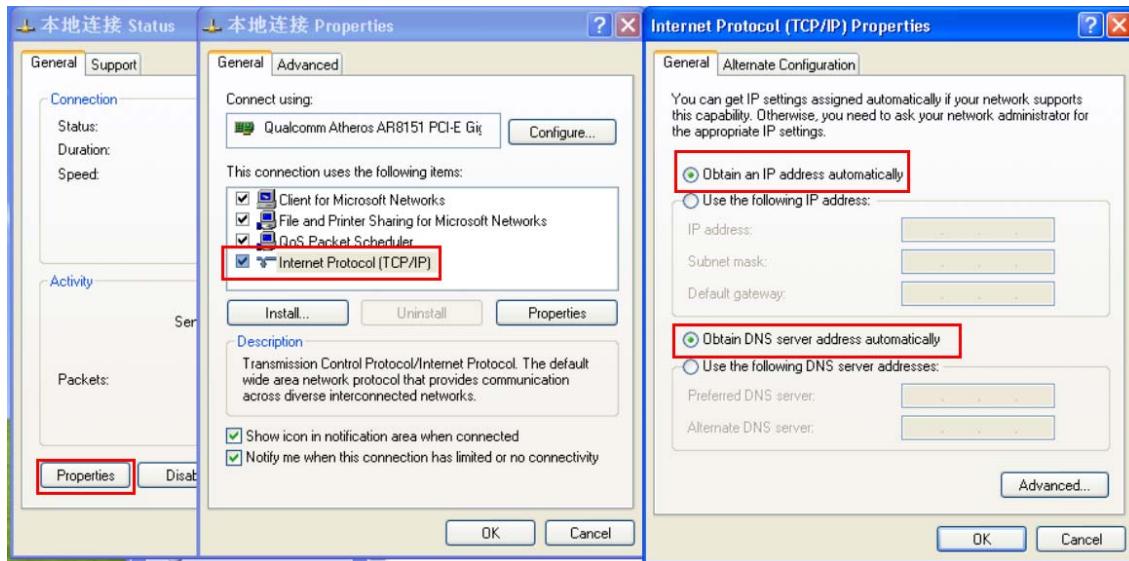
The screenshot shows the 'Advanced Settings' interface with a sidebar containing links like 'Return home', 'Setup Wizard', 'Device Status', 'Wireless', 'Network', and 'Management'. The main menu bar includes 'System Time', 'Signal tracking', 'Logs', 'Upgrade Firmware', 'System', and 'User' (which is underlined). The 'User' section displays fields for 'User name' (set to 'root'), 'Old Password', 'Password', and 'Confirm Password'.

### P52 User

## Chapter 6 Share Internet and Obtain IP address automatically

Set computer's TPC/IP as Obtain an IP address automatically, Obtain DNS server address automatically as following picture showed.

the computer will obtain the IP address from router or base station to get Internet.



## Chapter 7: Trouble Shooting:

### F 1 The Failure phenomenon and solution

Failure phenomenon	Solution
SYS Indicator off	Pls make sure the PoE module connection is right. POE Port connect with AP, LAN port connect with computer
Can't land to Wireless AP through Web page	<p>Pls check the IP address of computer and Wireless AP to see whether they are in same networking segment, The method is click "start"-“Run” input“cmd”, ping 192.168.188.253 to test the Wireless AP connectivity.</p> <p>Reset Wireless AP and load it again;</p> <p>Pls make sure the IP address 192.168.188.253 is not occupied by other device in Wireless AP's networking;</p> <p>Check computer and cable problem, recommend to use 10/100M UTP unshielded cable;</p> <p>Clean up Arp binding from “Start”-“Run” input“cmd” arp –d</p> <p>Clean the IE Brower's temporary files and Cache file.</p>
Wireless AP can't connect with AP (the status display unconnected)	<p>Try to scan the available wireless networking again;</p> <p>Make sure the Wireless AP's wireless standard is correct; (2.4Ghz signal should connect 2.4Ghz, 5.8Ghz signal should connect 5.8Ghz signal; )</p> <p>The Security and passwords are matched between Wireless AP and AP;</p> <p>The signal strength of AP is too weak to connect, should be more than -75dBm;</p>
Can't scan the wireless AP	<p>Scan it several times more;</p> <p>If using 5Ghz to scan, please make sure there are 5G signal existed.</p> <p>Reset the Wireless AP, scan it again after Wireless AP restart;</p>
The connection of Wireless AP and AP is success, but the computer can't share internet	Pls Check the computer's IP address and DNS setting. If it is dynamic, set the network card as automatically obtain. If it is static IP, pls contact with ISP for correct IP address and DNS address.
How to Reset Wireless AP	Press the “Reset” button more than 15 seconds after power on. The Wireless AP will restore factory default after the Wireless AP restart.

**Warning:**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

**RF Exposure Statement**

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter